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APPLICATION NO.	FE	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,620	12/05/2001		Atsushi Sakamoto	401471/CHISSO	1955
23548	7590	06/01/2005		EXAMINER	
LEYDIG VOIT & MAYER, LTD 700 THIRTEENTH ST. NW				SAYALA, C	ТНЯАУА D
SUITE 300	ENIDSI	. NW		ART UNIT	PAPER NUMBER
WASHINGT	ON, DC	20005-3960		1761	

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				JV
		Application No.	Applicant(s)	•
		10/002,620	SAKAMOTO ET AL.	
	Office Action Summary	Examiner	Art Unit	
		C. SAYALA	1761	
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet wit	h the correspondence address	
THE - Exte afte - If th - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 rs IX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reploperiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a re ly within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).	
Status				
1)🖂	Responsive to communication(s) filed on 04 A	pril 2005.		
2a)□	This action is <b>FINAL</b> . 2b)⊠ This	s action is non-final.		
3)[	Since this application is in condition for allowa	nce except for formal matte	rs, prosecution as to the merits is	
	closed in accordance with the practice under b	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposit	ion of Claims			
5)⊠ 6)⊠ 7)□	Claim(s) 4-20 and 22-32 is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) 14-19 is/are allowed.  Claim(s) 4-13, 22-32 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.		
Applicat	ion Papers			
9)[	The specification is objected to by the Examine	er.		
· · · · · · · · · · · · · · · · · · ·		epted or b) objected to b	y the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
4.0	Replacement drawing sheet(s) including the correct		• • • • • • • • • • • • • • • • • • • •	
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-152.	
Priority	under 35 U.S.C. § 119			
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	ss have been received. ss have been received in Ap rity documents have been r u (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachmen	it(s)			
1) Notice	ce of References Cited (PTO-892)		mmary (PTO-413)	
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		Mail Date ormal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

The advisory action mailed 5/10/2005 has been vacated and the following Office Action takes its place. It has been noted that the Paper filed 4/4/2005 by applicant was erroneously entered as an after-final response and that has been corrected. This action replaces the previous non-final action mailed 5/20/05.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 4-7, 20, 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Bardsley (US Patent 3979198).

Table V teaches a mixture of potassium metaphosphate and ureaformaldehyde as a nutrient filler particle and meets claims. Note the amounts that appear to overlap with those claimed. As for claim 20, which includes the step of adding to the urea/aldehyde condensation product, a sparingly soluble phosphatic fertilizer, the reference teaches just that and therefore, meets the limitation describing the physical characteristics making it inherent.

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2. Claims 4-8, 20, 22, 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Rehberg et al. (US Patent 5174804).

See claims 7, 9 and 12.

3. Claims 4-8, 20, 22, 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 0968980.

See the abstract which teaches the size of the fertilizer particle and claims 4-5 and 8, 16 and 17.

4. Claims 4-7, 20, 22, 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Kealy et al. (US Patent 3119683).

See col. 3, lines 50-65 which discloses a mixed fertilizer product with ureaformaldehyde and mono, di and triphosphates.

5. Claims 4-7, 20, 22 and 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Kealy. (US Patent 2955930).

The patent teaches a fertilizer which combines in its composition, dicalcium phosphate, among others, with urea-formaldehyde. See col. 14, lines 25+ and see claim 5.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 4-13, 23-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bardsley et al., Kealy et al., Kealy, Rehberg et al. or EP 0968980 in view of Goertz et al. (US Patent 4025329) and Mason (US 3205061) and Stansbury et al. (US Patent Re 27238).

The primary references are as discussed above. They do not teach particle size of that the phosphate and urea-aldehyde product is combined with a wax. Goertz teaches combining a urea formaldehyde fertilizer with phosphate and also teaches sizes for fertilizer granulates. One skilled in the art who is considering the manufacture of urea-aldehyde products for fertilizers would have been motivated to follow the size of particulates given in this reference at col. 4. Combining urea fertilizers with water insoluble wax is known in the art and for the slow-release properties that this provides, it would have been obvious to one of ordinary skill to incorporate such in the teachings of the primary references.

### Response to Amendment

Applicant's arguments filed 4/4/2005 have been fully considered but they are not persuasive.

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Applicant's comparison of the sparingly soluble phosphates of the references (in conversion to  $P_2O_5$ ) has caused the withdrawal of the rejections over the following references: Thomas et al. Aoki et al. and Kempf et al.

The Bardsley reference is still applicable based on Table 1 and the ratio of  $P_2O_5$  to urea/formaldehyde condensation product that may be calculated from it. Remarks made with respect to the Rehberg et al. reference were not convincing because the calculations presented pertain to magnesium ammonium phosphate whereas the sparingly soluble salt that apply to the claims is dicalcium phosphate, etc. So long as the reference teaches dicalcium phosphate and urea-formaldehyde, this reference is relevant and applicable. Arguments presented for EP '980 and Kealy et al. and Kealy are not convincing and are maintained. Applicant's arguments with respect to claim 28 are not persuasive because the claim is to a urea/aliphatic aldehyde condensation product described by physical characteristics which would be either intrinsically part of the condensation product or obvious over the references applied.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. SAYALA whose telephone number is 571-272-1405.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. SAYALA Primary Examiner Group 1700.